

Applicant Copy

101.055 475

Page 1 of 5

| | | |
|---|---|--------------------------|
| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | Atty. Docket No. A34614-A-PCT-USA-A (070050.1921) | Serial No. 10/055,475 |
| | Applicant Fisher <i>et al.</i> | |
| | Filing Date January 22, 2002 | Group 1636 |
| | Examiner Not Yet Assigned Jennifer Dunston | |

U.S. PATENT DOCUMENTS

| *Exam. Init. | Document No. | Date | Name | Class | Subclass | Filing Date if Appro. |
|--------------|--------------------|----------|----------------------|-------|----------|-----------------------|
| | 10. 6 0 5 1 3 7 6 | 04/18/00 | Fisher <i>et al.</i> | X | X | |
| | 11. 09 5 1 5 3 6 3 | 02/29/00 | Fisher <i>et al.</i> | X | X | |
| | 17. 5 6 4 3 7 6 1 | 07/01/99 | Fisher <i>et al.</i> | X | X | |

FOREIGN PATENT DOCUMENTS

| | Document No. | Date | Country | Class | Subclass | Translation Yes No |
|----|-----------------|----------|---------------------|-------|----------|-----------------------|
| 9D | 3. WO 01/64707 | 02/28/01 | WIPO PCT | X | X | |
| 9D | 42. WO 95/11986 | 10/24/94 | WIPO PCT | X | X | |

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| 9D | 1. | Kang D, Gopalkrishnan R, Wu Q, Janowsky E, Pyle A, Fisher PB. <i>mda-5</i> : an interferon-inducible putative RNA helicase, with double-stranded RNA-dependent ATPase activity and melanoma growth-suppressive properties. Proc. Natl. Acad. Sci. U.S.A. 2002 Jan 22; 99(2): 637-642. |
| | 2. | Bernstein E, Caudy AA, Hammond SM, Hannon GJ. Role for a bidentate ribonuclease in the initiation step of RNA interference. Nature 2001 Jan 18;409(6818):363-366. |
| | 4. | Kang D, Jiang H, Wu Q, Pestka S, Fisher PB. Cloning and characterization of human ubiquitin-processing protease-43 from terminally differentiated human melanoma cells using a rapid subtraction hybridization protocol RaSH. Gene 2001 Apr 18;267(2):233-242. |
| 9D | 5. | Leszczyniecka M, Roberts T, Dent P, Grant S, Fisher PB. Differentiation therapy of human cancer: basic science and clinical applications. Pharmacol Ther 2001 May-Jun;90(2-3):105-156. |

NY02:421197.1

Examiner

Date Considered

8/20/04

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | |
|---|---|--------------------------|
| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | Atty. Docket No. A34614-A-PCT-USA-A (070050.1921) | Serial No. 10/055,475 |
| | Applicant Fisher <i>et al.</i> | |
| | Filing Date January 22, 2002 | Group 1636 |
| | Examiner Not Yet Assigned Jennifer Dunston | |

| | | |
|----|--|--|
| 90 | | 6. Balachandran S, Roberts PC, Kipperman T, Bhalla KN, Compans RW, Archer DR, Barber GN. Alpha/beta interferons potentiate virus-induced apoptosis through activation of the FADD/Caspase-8 death signaling pathway. J Virol 2000 Feb;74(3):1513-1523. |
| | | 7. Bass B. Double-stranded RNA as a template for gene silencing. Cell April 28; 101:235-238, April 28, 2000. |
| | | 8. Jankowsky E, Jankowsky A. The DEXH/D protein family database. Nucleic Acids Res 2000 Jan 1;28(1):333-334. |
| | | 9. Kang et al., Proceedings of the American Association for Cancer Research 2000 May; 41:509-510, Abstract 3250. |
| | | 12. Zhang X, Wang C, Schook LB, Hawken RJ, Rutherford MS. An RNA helicase, RHIV -1, induced by porcine reproductive and respiratory syndrome virus (PRRSV) is mapped on porcine chromosome 10q13. Microb Pathog 2000 May;28(5):267-278. |
| | | 13. Huang F, Adelman J, Jiang H, Goldstein NI, Fisher PB. Identification and temporal expression pattern of genes modulated during irreversible growth arrest and terminal differentiation in human melanoma cells. Oncogene 1999 Jun 10;18(23):3546-3552. |
| | | 14. Huang F, Adelman J, Jiang H, Goldstein NI, Fisher PB. Differentiation induction subtraction hybridization (DISH): a strategy for cloning genes displaying differential expression during growth arrest and terminal differentiation. Gene 1999 Aug 5;236(1):125-131. |
| | | 15. Jacobsen SE, Running MP, Meyerowitz EM. Disruption of an RNA helicase/RNase III gene in Arabidopsis causes unregulated cell division in floral meristems. Development 1999 Dec;126(23):5231-5243. |
| | | 16. Kaufman R. Double-stranded RNA-activated protein kinase mediates virus-induced apoptosis: a new role for an old actor. Proc. Natl. Acad. Sci. U.S.A. 1999 Oct 12; 96(2):11693-11695. |
| | | 18. Yeung MC, Chang DL, Camantigue RE, Lau AS. Inhibitory role of the post-apoptotic gene PK ϵ in the establishment of persistent infection by encephalomyocarditis virus in U937 cells. Proc. Natl. Acad. Sci. U.S.A. 1999 Oct. 12; 96(21):11860-11865. |
| 90 | | 19. Wallach D, Varfolomeev EE, Malinin NL, Goltsev YV, Kovalenko AV, Boldin MP. Tumor necrosis factor receptor and Fas signaling mechanisms. Annu Rev Immunol 1999;17:331-367. |

NY02:421197.1

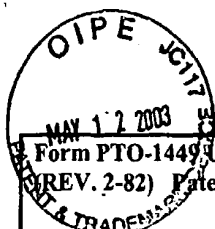
Examiner

Jennifer Dunston

Date Considered

8/20/04

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce
(REV. 2-82) Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No.
A34614-A-PCT-USA-A
(070050.1921)

Serial No.
10/055,475

Applicant
Fisher *et al.*

Filing Date
January 22, 2002

Group
1636

Examiner
~~Not Yet Assigned~~
Jennifer Dunston

| | | |
|----|-----|--|
| 90 | 20. | Chou JJ, Matsuo H, Duan H, Wagner G. Solution structure of the RAIDD CARD and model for CARD/CARD interaction in caspase-2 and caspase-9 recruitment. Cell 1998 Jul 24;94(2):171-180. |
| | 21. | Guo D, Dunbar JD, Yang CH, Pfeffer LM, Donner DB. Induction of Jak/STAT signaling by activation of the type I TNF receptor. J Immunol 1998 Mar 15;160(6):2742-2750. |
| | 22. | Kumar M and Carmichael G. Antisense RNA: function and fate of duplex RNA in cells of higher eukaryotes. Microbiology and Molecular Biology Reviews. 1998 Dec; 62(4):1415-1434. |
| | 23. | Lin JJ, Jiang H, Fisher PB. Melanoma differentiation associated gene-9, mda-9, is a human gamma interferon responsive gene. Gene 1998 Jan 30;207(2):105-110. |
| | 24. | Lüking A, Stahl U, Schmidt U. The protein family of RNA helicases. Crit Rev Biochem Mol Biol 1998;33(4):259-296. |
| | 25. | Player MR, Torrence PF. The 2-5A system: modulation of viral and cellular processes through acceleration of RNA degradation. Pharmacol Ther 1998 May;78(2):55-113. |
| | 26. | Stark GR, Kerr IM, Williams BR, Silverman RH, Schreiber RD (1998). How cells respond to interferons. Annu Rev Biochem 1998;67:227-264. |
| | 27. | Wagner JD, Jankowsky E, Company M, Pyle AM, Abelson JN. The DEAH-box protein PRP22 is an ATPase that mediates ATP-dependent mRNA release from the spliceosome and unwinds RNA duplexes. EMBO J 1998 May 15;17(10):2926-2937. |
| | 28. | Hofmann K, Bucher P, Tschopp J. The CARD domain: a new apoptotic signalling motif. Trends Biochem Sci 1997 May;22(5):155-156. |
| | 29. | Kadare G, Haenni AL. Virus-encoded RNA helicases. J Virol 1997 Apr;71(4):2583-2590. |
| 90 | 30. | Kim DW, Kim J, Gwack Y, Han JH, Choe J. Mutational analysis of the hepatitis C virus RNA helicase. J Virol 1997 Dec;71(12):9400-9409. |

NY02:421197.1

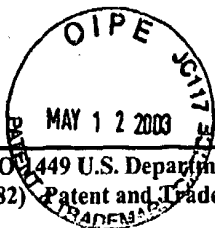
Examiner

Jennifer Dunston

Date Considered

8/20/04

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



| | | |
|--|---|--------------------------|
| Form PTO 449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | Atty. Docket No. A34614-A-PCT-USA-A (070050.1921) | Serial No. 10/055,475 |
| | Applicant Fisher <i>et al.</i> | |
| | Filing Date January 22, 2002 | Group 1636 |
| | Examiner Not Yet Assigned Jennifer Dunston | |

| | |
|-----|---|
| 31. | Morreale A, Mallon B, Beale G, Watson J, Rumsby M. Ro31-8220 inhibits protein kinase C to block the phorbol ester-stimulated release of choline- and ethanolamine-metabolites from C6 glioma cells: p70 S6 kinase and MAPKAP kinase-1beta do not function downstream of PKC in activating PLD. FEBS Lett 1997 Nov 3;417(1):38-42. |
| 32. | Davis S and Watson JC. <i>In vitro</i> activation of the interferon-induced double-stranded RNA-dependent protein kinase PKR by RNA from the 3' untranslated regions of human α -tropomyosin. Proc. Natl. Acad. Sci. U.S.A. 1996 Jan; 93:508-513. |
| 33. | Gross CH, Shuman S. The QRxGRxGRxxxG motif of the vaccinia virus DExH box RNA helicase NPH-II is required for ATP hydrolysis and RNA unwinding but not for RNA binding. J Virol 1996 Mar;70(3):1706-1713. |
| 34. | Jiang H, Su ZZ, Lin JJ, Goldstein NI, Young CS, Fisher PB. The melanoma differentiation associated gene mda-7 suppresses cancer cell growth. Proc Natl Acad Sci USA 1996 Aug 20;93(17):9160-9165. |
| 35. | Kozak M. Interpreting cDNA sequences: some insights from studies on translation. Mamm Genome 1996 Aug;7(8):563-574. |
| 36. | Lin JJ, Jiang H, Fisher PB. Characterization of a novel melanoma differentiation associated gene, mda-9, that is down-regulated during terminal cell differentiation. Mol Cell Different 1996;4:317-333. |
| 37. | Pain VM. Initiation of protein synthesis in eukaryotic cells. Eur J Biochem 1996 Mar 15;236(3):747-771. |
| 38. | Der SD, Lau AS. Involvement of the double-stranded-RNA-dependent kinase PKR in interferon expression and interferon-mediated antiviral activity. Proc Natl Acad Sci USA 1995 Sep 12;92(19):8841-8845. |
| 39. | Jiang H, Lin JJ, Su ZZ, Goldstein NI, Fisher PB. Subtraction hybridization identifies a novel melanoma differentiation associated gene, mda-7, modulated during human melanoma differentiation, growth, and progression. Oncogene. 1995 Dec 21;11(12):2477-2486. |
| 40. | Jiang H, Lin J, Su ZZ, Herlyn M, Kerbel RS, Weissman BE, Welch DR, Fisher PB (1995b). The melanoma differentiation-associated gene mda-6, which encodes the cyclin-dependent kinase inhibitor p21, is differentially expressed during growth, differentiation, and progression in human melanoma cells. Oncogene. 1995 May 4;10(9):1855-1864. |

NY02:421197.1

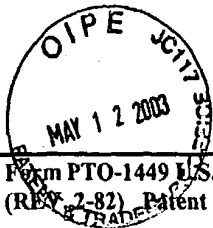
Examiner

Jennifer Dunston

Date Considered

8/20/04

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



| | | |
|---|---|--------------------------|
| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | Atty. Docket No. A34614-A-PCT-USA-A (070050.1921) | Serial No. 10/055,475 |
| | Applicant Fisher <i>et al.</i> | |
| | Filing Date January 22, 2002 | Group 1636 |
| | Examiner Not Yet Assigned Jennifer Dunston | |

| | | |
|----|-----|--|
| 90 | 41. | Reuven NB, Koonin EV, Rudd KE, Deutscher MP. The gene for the longest known Escherichia coli protein is a member of helicase superfamily II. J Bacteriol 1995 Oct;177(19):5393-5400. |
| | 43. | Jiang H, Lin J, Fisher PB. A molecular definition of terminal differentiation in human melanoma cells. Mol Cell Different 1994;2:221-239. |
| | 44. | Kumar A, Haque J, Lacoste J, Hiscott J, Williams BR. Double-stranded RNA-dependent protein kinase activates transcription factor NF-kappa B by phosphorylating I kappa B. Proc Natl Acad Sci U S A 1994 Jul 5;91(14):6288-6292. |
| | 45. | Garbe C, Krasagakis K. Effects of interferons and cytokines on melanoma cells. J Invest Dermatol 1993 Feb;100(2 Suppl):239S-244S. |
| | 46. | Gorbalenya AE, Koonin EV. Helicases: amino acid sequence comparisons and structure-function relationships. Curr Opin Struct Biol 1993;3:419-429. |
| | 47. | Jiang H, Fisher PB. Use of a sensitive and efficient subtraction hybridization protocol for the identification of genes differentially regulated during the induction of differentiation in human melanoma cells. Mol Cell Different 1993;1:285-299. |
| | 48. | Jiang H, Su ZZ, Boyd J, Fisher PB. Gene expression changes associated with reversible growth suppression and the induction of terminal differentiation in human melanoma cells. Mol Cell Different 1993;1:41-66 |
| | 49. | Pause A, Methot N, Sonenberg N. The HRIGRXXR region of the DEAD box RNA helicase eukaryotic translation initiation factor 4A is required for RNA binding and ATP hydrolysis. Mol Cell Biol 1993 Nov;13(11):6789-6798. |
| | 50. | Sen GS, Ransohoff RM. Interferon-induced antiviral actions and their regulation. Adv Virus Res 1993;42:57-102. |
| | 51. | Garbe C, Krasagakis K, Zouboulis CC, Schroder K, Kruger S, Stadler R, Orfanos CE. Antitumor activities of interferon alpha, beta, and gamma and their combinations on human melanoma cells in vitro: changes of proliferation, melanin synthesis, and immunophenotype. J Invest Dermatol 1990 Dec;95(6 Suppl):231S-237S. |
| 90 | 52. | Current Protocols in Molecular Biology, Volume I. Ausubel <i>et al.</i> , eds. John Wiley:New York NY, pp. 2.10.1-2.10.16. 1989 with annual updating. |

NY02:421197.1

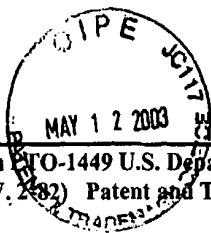
Examiner

Jennifer Dunston

Date Considered

8/20/04

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



| | | |
|---|--|---------------------------------|
| Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | Atty. Docket No. A34614-A-PCT-USA-A (070050.1921) | Serial No. 10/055,475 |
| | Applicant Fisher <i>et al.</i> | |
| | Filing Date January 22, 2002 | Group 1636 |
| | Examiner Not Yet Assigned Jennifer Dunston | |

| | | |
|----|-----|--|
| 90 | 53. | Tamaoki T, Nomoto H, Takahashi I, Kato Y, Morimoto M, Tomita F.. Staurosporine, a potent inhibitor of phospholipid/Ca++dependent protein kinase. Biochem Biophys Res Commun 1986 Mar 13;135(2):397-402. |
| | 54. | Fisher PB, Prignoli DR, Herms H Jr, Weinstein IB, Pestka S. Effects of combined treatment with interferon and mezerein on melanogenesis and growth in human melanoma cells. J Interferon Res 1985 Winter;5(1):11-22. |
| | 55. | Fisher PB, Grant S. Effects of interferon on differentiation of normal and tumor cells. Pharmacol Ther 1985;27(2):143-166. |
| 90 | 56. | Greiner JW, Schlom J, Pestka S, Langer JA, Giacomini P, Kusama M, Ferrone S, Fisher PB. Modulation of tumor associated antigen expression and shedding by recombinant human leukocyte and fibroblast interferons. Pharmacol Ther 1985;31(3):209-236. |

| | |
|----------------------------------|--------------------------------|
| NY02:421197.1 | |
| Examiner <i>Jennifer Dunston</i> | Date Considered <i>8/20/04</i> |

* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.